

**MOBILE TELECOMMUNICATIONS NETWORK
WITH IMPROVED DOWNLINK CAPACITY**

Abstract of the Disclosure

According to the SDMA approach, the beamformer employed at each base
5 station of a GSM network is designed to resolve in space the multiple co-channel
users allowed in the cell sector by generating appropriate beam patterns for each one
of them. Nevertheless, there are case where the CIR of one of the co-channel mobile
users, monitored in the base station BS, falls below a preset threshold value. In this
case a channel re-allocation is instructed for this user. This allows either tighter reuse
10 of channels for the same number of users in each cell/sector or an increased number of
co-channel users in each cell/sector.

TO: "040460"